

AgileSec | VPN

Quantum Safe Layer 3 Encryption Solution

Protecting highly critical network communication against quantum threat

Quantum-Safe. Agile. Compliant.

AgileSec VPN is a high-performance, enterprise-grade, quantum-safe layer 3 network encryption solution designed for organizations looking to protect classified communications against long-term eavesdropping. In parallel to development of quantum computer, powerful groups have already started recording network communication with intent to decrypt later. Mitigating Quantum Risk and maintaining confidentiality of today's information for long term requires transition to quantum safe technologies.

KEY MARKETS



Financial Institutions



Governments



Pharma and Healthcare



Network Solutions Providers

KEY CAPABILITIES



Protect classified information for long term using best quantum safe methods



Comply with industry standards while protecting network against quantum threat



Seamlessly transition to future quantum resistant cryptographic algorithms



Integrate with infrastructure and support flexible deployment scenarios

Quantum Safe Layer 3 encryption

AgileSec VPN protects critical network communications against quantum threat by combining PQC algorithms with cryptography agility to seamlessly support upcoming cryptographic standards with optional capability to leverage quantum random number generator and quantum key distribution.



QUANTUM SAFE SECURITY

AgileSec VPN is a unique solution designed for organization looking to protect highly sensitive network communication and long-life information against upcoming quantum computer threat. AgileSec VPN combines best available techniques to achieve long term data protection with agility to seamlessly support any current, future or sovereign cryptographic standards. AgileSec VPN uses the following principal mechanisms:

Post-Quantum Cryptography. Use side channel resistant quantum resistant Supersingular isogeny key agreement and Hash based signature scheme.

Cryptography Agility. Natively provides cryptography agility and unique capability to seamlessly transition to future cryptographic standards or national standards.

Hybrid Keys. QVPN Supports combination of different algorithms and keying material to achieve compliance with standards together with quantum resistance.

QRNG. Leverage quantum physics to generate true high quality entropy for key generation and random parameters generation from partner.

Quantum Key Distribution. Can be integrated with QKD to benefit from additional source of high-quality and quantum safe key distribution from partner.



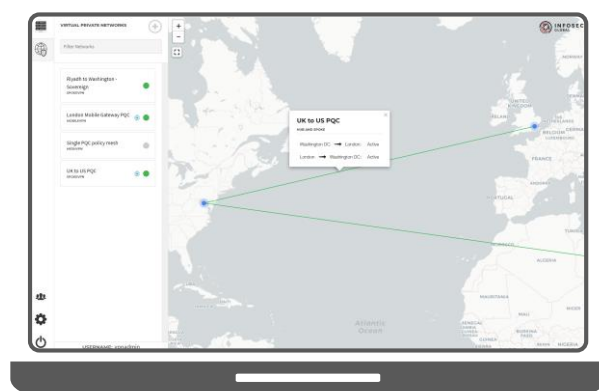
CENTRALIZED MANAGEMENT

AgileSec VPN addresses requirements of organizations looking for granular control over the different security functions and cryptographic functions in used within their network infrastructure..

Central Management. Seamless Web-based UI for simple management of large scale deployment of AgileSec VPN across several sites.

Cryptography Management. Provide detailed selections of embedded cryptographic scheme (PQC, Standards, ECC) and allows deployment of new cryptographic algorithms at run-time without recompilation.

Encryption Management. Enable granular configuration of encryption and combination of key exchanges (hybrid keys) to use for each VPN tunnels.



Scalable Quantum Safe Encryption

AgileSec VPN can protect sensitive sites-to-site communications as well as network communication virtual or cloud environments and mobile devices. The AgileSec VPN meets highest security constraints while providing highest level of flexibility and agility.

FLEXIBLE DEPLOYMENT

AgileSec VPN is a software solution that can be deployed within secure virtual environment within cloud, virtual machines, mobile devices or hardened hardware appliance. AgileSec VPN delivers homogenous quantum safe network encryption across critical infrastructure and systems deployed within an organization.



On-site
AgileSec VPN



Virtual
AgileSec VPN



Cloud
AgileSec VPN



Mobile
AgileSec VPN

WHY AGILESEC VPN



Intuitive Web Based Management



Combines Certified Cryptography with PQC



Enterprise Integration (SIEM, QKD ...)



Crypto Agility to support any future standards



Network agnostic



Supports external QRNG for highest entropy



Multi-platform (Physical and Virtual)



Support for end-user specific cryptography